

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,916	11/21/2003	Johan Soderdahl	20260-00079-US	7571
30678 75	90 12/06/2005		EXAMINER	
CONNOLLY BOVE LODGE & HUTZ LLP			SICONOLFI, ROBERT	
SUITE 800 1990 M STREET NW WASHINGTON, DC 20036-3425			ART UNIT	PAPER NUMBER
			3683	

DATE MAILED: 12/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commons	10/717,916	SODERDAHL, JOHAN			
Office Action Summary	Examiner	Art Unit			
	Robert A. Siconolfi	3683			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 11 Ju	ilv 2005.				
<u> </u>	action is non-final.				
· <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-9 and 11-16 is/are pending in the application.					
4a) Of the above claim(s) 11-14 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) 1-9,15 and 16 is/are rejected.					
7) Claim(s) is/are objected to.	· alastian rasuitanant	•			
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 					
Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
•					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		atent Application (PTO-152)			
Paper No(s)/Mail Date 6) Other:					

Application/Control Number: 10/717,916 Page 2

Art Unit: 3683

DETAILED ACTION

1. Amendment filed on 7/11/05 has been received.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-9, 15, 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claims 1, 16 discloses a second and third means. The second and third means seem to correspond to the pressure relief valves and the gas volume claimed in dependent claims. However, the elements are not identified as second and third means. Therefore, it is unclear to the examiner as to the scope of the claims.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/717,916 Page 3

Art Unit: 3683

6. Claim 1-9 15 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crouch and further in view of Tsuchiya et al (U. S. Patent no. 4,693,454).

Crouch discloses:

See figure 1 piston E, passage m at a position near the fully expanded position

Crouch does not disclose temperature compensation or non-return valves. Ingham
teaches temperature compensation and non-return valves (see figure 4 adjustable
pressure-relief/temperature compensation valves 21,22, adjustable non-return valve
23). It would have been obvious to one of ordinary skill in the art at the time the
invention was made to use temperature compensation and non-return valves as taught
by Ingham in the device of Crouch in order to ensure that the proper device pressure is
available at all times. Changes in temperature can lead to a change of the spring
characteristic. The use of these valves allows the spring rate to be maintained over a
variety of temperatures.

Crouch, as modified, is relied upon as above. Crouch, as modified, does not disclose connecting the expansion chamber to a gas volume. Tsuchiya et al teaches connecting the expansion chamber to a compressed air source (see figure 9 source 640). It would have been obvious to one of ordinary skill in the art at the time the invention was made to as taught by Tsuchiya et al. in the device of Crouch, as modified, in order to operate the gas spring at a pressure different than atmospheric pressure (e.g. higher pressure which would produce a higher spring rate).

Application/Control Number: 10/717,916 Page 4

Art Unit: 3683

Response to Arguments

7. Applicant's arguments filed 7/11/05 have been fully considered but they are not persuasive. Applicants argue none of the references teach a passage between the two chambers open in only one predetermined position. Examiner disagrees and notes passage m.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 3683

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Siconolfi whose telephone number is 571-272-7124. The examiner can normally be reached on M-F 10 am-3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on (571) 272-7095. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

Art Unit 3683

9/27/05

RS